

# WALLEYS QUARRY

## PRESS INFORMATION

**Date: 21.10.2021**

**Title: Capping**

Walleys Quarry is an active landfill facility, within the Newcastle-under-Lyme area. As part of the management of the site, there are a number of types of capping systems employed at the facility. These systems have the aim of reducing the infiltration of rainwater and helping to provide a seal to the waste mass.

There are three systems currently in use at Walleys Quarry:

Permanent Capping System – this can be comprised of either a low permeability (ability for water to pass through) clay or plastic geomembrane. Both systems are based on having a low permeability and therefore have the ability to shed water, which can then be managed away from the waste mass on site. At Walleys Quarry we have deployed the use of a plastic geomembrane to areas of Cell 1, with the intention of utilising this method across the facility as areas reach pre-settlement levels. In order to undertake these works, a specification is produced by our experience engineering consultants which must have approval from the Environment Agency prior to works commencing. The capping system will be installed using specialist contractors, under the close and continuous supervision of an experienced geotechnical engineer. Once the installation works are complete, a report is compiled and issued to the Environment Agency for approval of the works. This methodology of working is called “Construction Quality Assurance” and ensures that these works are undertaken in compliance with current legislation and to the satisfaction of the Environment Agency.

Temporary Capping Systems – again, this system can be comprised of either a low permeability clay or plastic geomembrane. Walleys Quarry Ltd has utilised both systems at its facility. The decision on which type is used is based on variables such as availability of raw materials, location and time of the year. Temporary systems are deployed in areas which have not reached their presettlement levels and therefore remain operational, but where there is likely to be a cessation of activity. The works are undertaken using specialist engineering consultants and specialist contractors to install the capping system to the satisfaction of the Environment Agency.

PosiShell – As we have previously discussed, Walleys Quarry Ltd were pleased to bring this novel capping system to the UK market, being imported directly from the US. The system employs a Cementaceous Bentonite, applied wet to the surface of the landfill which subsequently hardens to form a crust.

Utilising the capping systems described above, Walleys Quarry Ltd has capped a significant proportion of the landfill, in the order 64% of the surface area, leaving only a small portion of the landfill available for operations. These are managed utilising daily and intermediate cover (typically soils) to pin and seal the waste whilst the area is infilled

**ENDS**

For press information please contact [press@walleysquarry.co.uk](mailto:press@walleysquarry.co.uk)

**Notes to editors:**

Website: <https://www.walleysquarry.co.uk>

**About Walleys Quarry:**

Walleys Quarry in Newcastle-Under-Lyme, Staffordshire is a landfill site, offering safe disposal of waste that cannot otherwise be re-used or recycled.